STM-Structure Search 11/15/07

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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

2005:979652 CAPLUS ACCESSION NUMBER:

143:248568 DOCUMENT NUMBER:

Process for the manufacture of lysergic acid TITLE:

Cvak, Ladislav; Mojczek, Vlastislav INVENTOR(S):

Ivax Corporation, USA; Ivax Phamaceuticals S.R.O. PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA	TENT	NO.			KIND DATE					APPI	LICAT	ION		DATE					
	WO 2005082902					A1 20050909				WO 2	2005-1	US49	20050217							
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	, BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,		
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	, EC,	EE,	EG,	ES,	FI,	GB,	GD,		
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	, JP,	KE,	KG,	KP,	KR,	KZ,	LC,		
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	, MK,	MN,	MW,	MX,	MZ,	NΑ,	NI,		
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	, sc,	SD,	SE,	SG,	SK,	SL,	SM,		
			SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪG,	, US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	, SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,		
			AZ,	BY,	KG,	KΖ,	MD,	RU,	TJ,	TM,	AT,	, BE,	BG,	CH,	CY,	CZ,	DE,	DK,		
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	, IT,	LT,	LU,	MC,	NL,	PL,	PT,		
			RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	, CI,	CM,	GA,	GN,	GQ,	GW,	ML,		
			MR,	NE,	SN,	TD,	TG													
	CA 2556774							2005	0909	CA 2005-2556774					20050217					
	EP	EP 1718644					20061108			EP 2005-723159						20050217				
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			BA,	HR,	IS,	YU						•								
	CN	1956	985	Α	20070502			CN 2005-80012323					20050217							
		2005				2007	0522	BR 2005-6798					20050217							
	JP	2007	${f T}$	20070816			JP 2006-554184					20050217								
	US	2007	A1	20070614			US 2006-589768					20060817								
	IN	2006	DN05	A	20070803			IN 2006-DN5160					20060908							
	KR	2007	Α	20070302			KR 2006-718668					20060912								
P	PRIORITY APPLN. INFO.:										US 2004-546559P					P 20040220				
										1	WO 2	2005-1	US49	33	1	W 20	0050	217		
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OTHER SOURCE(S):

CASREACT 143:248568

II

Lysergic acid (I) is formed in high yields and high quality by isomerizing AB paspalic acid (II) in a phase separated mixture formed by paspalic acid and a concentrated aqueous metal hydroxide solution

IT 82-58-6P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for the manufacture of lysergic acid via the isomerization of paspalic acid in a phase separated mixture formed by paspalic acid and a concentrated aqueous metal hydroxide soln)

RN 82-58-6 CAPLUS

CN Ergoline-8-carboxylic acid, 9,10-didehydro-6-methyl-, (8β)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

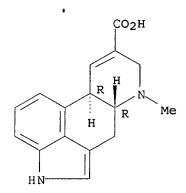
IT 5516-88-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(process for the manufacture of lysergic acid via the isomerization of
paspalic acid in a phase separated mixture formed by paspalic acid and a
concentrated aqueous metal hydroxide soln)

RN 5516-88-1 CAPLUS

CN Ergoline-8-carboxylic acid, 8,9-didehydro-6-methyl- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:31499 CAPLUS

DOCUMENT NUMBER: 134:86417

TITLE: Preparation of lysergic acid

INVENTOR(S): Gaullier, Jean-Claude
PATENT ASSIGNEE(S): Aventis Pharma S.A., Fr.
SOURCE: PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent French

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

;	PATENT NO.							KIND DATE						DATE						
1	 WO	2001	0023	95		A1	-	20010111		WO 2000-FR1820							20000629			
													, BR,				CH,	CN,		
													, GB,							
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		RW.	•	•	•	•	•						, UG,	ZW.	AT.	BE.	CH.	CY.		
		2000.											, MC,							
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	FR						, GA, GN, GW, ML, MR, NE, SN, TD, T 1 20010105 FR 1999-8538													
						B1 20010907														
									US 2000-598425						20000621					
										CA 2000-2376703										
	EP 1196415																			
	EP 1196415																			
										GB,	GR	. IT	, LI,	LU,	NL,	SE	MC,	PT,		
		•••	-			LV,				- '		•		•	•		•	•		
	AT 230743								0115		ΑT	2000	- 9495	72		2	20000	629		
	JP 2003503494										JP 2001-507832						20000629			
	ES 2185602									ES 2000-949572										
	PRIORITY APPLN. INFO.:												-8538				9990	702		
			· ·		-								-1614				9991			
													-FR18				20000			
						~- ~														

OTHER SOURCE(S): CASREACT 134:86417

AB Lysergic acid was prepared by isomerization of paspalic acid using a tetraalkylammonium hydroxide. Thus, 130 g paspalic acid was treated with 780 g of a 40% aqueous soln of tetrabutylammonium hydroxide under N for 3.5 h followed by acidification with 95% sulfuric acid at pH 3.5 to give 107 g lysergic acid.

IT 82-58-6P, Lysergic acid

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of lysergic acid by isomerization of paspalic acid)

RN 82-58-6 CAPLUS

CN Ergoline-8-carboxylic acid, 9,10-didehydro-6-methyl-, (8β)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 5516-88-1, Paspalic acid
RL: RCT (Reactant); RACT (Reactant or reagent)

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CN FS

DR MF

CI

STEREOSEARCH

C16 H16 N2 O2

COM

4238-83-9, 345925-51-1, 409109-26-8, 607363-38-2

(preparation of lysergic acid by isomerization of paspalic acid) 5516-88-1 CAPLUS RN Ergoline-8-carboxylic acid, 8,9-didehydro-6-methyl- (8CI, 9CI) (CA INDEX CN NAME) Absolute stereochemistry. CO2H R Me R 3 REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT => d his (FILE 'HOME' ENTERED AT 16:42:54 ON 15 NOV 2007) FILE 'REGISTRY' ENTERED AT 16:43:11 ON 15 NOV 2007 E LYSERGIC ACID/CN 1 S E3 L1E PASPALIC ACID/CN 1 S E3 L2FILE 'CAPLUS' ENTERED AT 16:44:44 ON 15 NOV 2007 104 S L1/PREP L3 L4 5 S L2/RCT 2 S L3 AND L4 L5 YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y) /N:y ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN L1 RN 82-58-6 REGISTRY Entered STN: 16 Nov 1984 ED Ergoline-8-carboxylic acid, 9,10-didehydro-6-methyl-, (8β)- (CA CNINDEX NAME) OTHER CA INDEX NAMES: Ergoline-8β-carboxylic acid, 9,10-didehydro-6-methyl- (8CI) CN CN Indolo[4,3-fg]quinoline, ergoline-8-carboxylic acid deriv. CN Lysergic acid (6CI) OTHER NAMES: (+)-Lysergic acid CN D(+)-Lysergic acid CN D-Lysergic acid CN d-Lysergic acid

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT, PS, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

520 REFERENCES IN FILE CA (1907 TO DATE)

43 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

520 REFERENCES IN FILE CAPLUS (1907 TO DATE)

32 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

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L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
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RN 5516-88-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Ergoline-8-carboxylic acid, 8,9-didehydro-6-methyl- (8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ergol-8-ene-8-carboxylic acid, 6-methyl- (7CI)

CN Indolo[4,3-fg]quinoline, ergoline-8-carboxylic acid deriv.

OTHER NAMES:

CN \(\Delta 8 - Lysergic acid \)

CN 6-Methyl- Δ 8-ergolene-8-carboxylic acid

CN 6-Methyl-8-carboxy- $\Delta 8$, 9-ergolene

CN 6-Methylergol-8-ene-8-carboxylic acid

CN 8,9-Didehydro-9,10-dihydrolysergic acid

CN Paspalic acid

FS STEREOSEARCH

DR 13980-89-7, 5539-08-2, 607363-40-6

MF C16 H16 N2 O2

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, IPA, NAPRALERT, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

10/589,768

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 24 REFERENCES IN FILE CA (1907 TO DATE)
- 24 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 - 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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